

Title (en)  
METHOD OF FORMING STRUCTURE HAVING CLOSED CROSS SECTION, AND DEVICE FOR FORMING STRUCTURE HAVING CLOSED CROSS SECTION

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER STRUKTUR MIT GESCHLOSSENEM QUERSCHNITT UND VORRICHTUNG ZUR HERSTELLUNG EINER STRUKTUR MIT GESCHLOSSENEM QUERSCHNITT

Title (fr)  
PROCÉDÉ PERMETTANT DE FORMER UNE STRUCTURE QUI PRÉSENTE UNE SECTION TRANSVERSALE FERMÉE, ET DISPOSITIF PERMETTANT DE FORMER UNE STRUCTURE QUI PRÉSENTE UNE SECTION TRANSVERSALE FERMÉE

Publication  
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Application  
**EP 13797101 A 20130523**

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• JP 2013003284 W 20130523

Abstract (en)  
[origin: EP2857117A1] An object is to make it possible to easily form a plate-shaped material into a closed cross-sectional structure with high precision. In a first step of press-forming, a workpiece 1 is formed into a curved shape that has curvatures in the longitudinal direction and the width direction required for a final closed cross-sectional shape. Next, in a second step, the workpiece, which has been formed in the first step, is bent in such a direction that left and right side wall portions approach each other by clamping bottom portions 2 and 3 between a punch 15 and a pad 16 in a plate-thickness direction. Next, in a third step, a pair of flange portions 7 and 8 are butted against each other while the bottom portions of the workpiece, which has been formed in the second step, are placed on a pad; and a die cavity having the same shape as the final closed cross-sectional shape is defined between a support surface of the pad supporting the bottom portion and pressing surfaces of a pair of pressure cams pressing the left and right side wall portions. Then, the pair of flange portions are depressed toward the cavity using depressing portions 31 of a second punch disposed above the pair of flange portions.

IPC 8 full level  
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• No further relevant documents disclosed  
• See references of WO 2013179617A1

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